



SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Ravnikar et al.
(ii) TITLE OF INVENTION: Thioredoxin/Heterologous Protein Bacterial Expression System
(iii) NUMBER OF SEQUENCES: 14
(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Schering-Plough Corporation
(B) STREET: 2000 Galloping Hill Road
(C) CITY: Kenilworth
(D) STATE: New Jersey
(E) COUNTRY: U.S.A.
(F) ZIP : 07033-0530
(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: diskette
(B) COMPUTER: Power Macintosh 7600/120
(C) OPERATING SYSTEM: Macintosh 7.5.3
(D) SOFTWARE: Microsoft Word 6.0
(vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: US 08/846,606
(B) FILING DATE: 30-APR-1997
(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: US 60/011,606
(B) FILING DATE: 30-APR-1996
(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Thampoe, Immac J.
(B) REGISTRATION NUMBER: 36,322
(C) REFERENCE DOCKET NUMBER: JB0600Q

(2) INFORMATION FOR SEQ ID NO:1

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 bases
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1

CCTGTGGAGT TACATATGAG CGATAAAATT 30

(2) INFORMATION FOR SEQ ID NO:2

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 47 bases
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2

GCACCCAAACA TGCAAGGATC CTTACGCCAG ATTAGCATCG AGGAAC 47

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(2) INFORMATION FOR SEQ ID NO:3

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3

ATGAGCGATA AAATTATTCA CCTGACTGAC GACAGTTTG ACACGGATGT	50
ACTCAAAGCG GACGGGGCGA TCCTCGTCGA TTTCTGGCA GAGTGGTGCG	100
GTCCGTGCAA AATGATCGCC CCGATTCTGG ATGAAATCGC TGACGAATAT	150
CAGGGCAAAC TGACCGTTGC AAAACTGAAC ATCGATCAA ACCCTGGCAC	200
TGCGCCGAAA TATGGCATCC GTGGTATCCC GACTCTGCTG CTGTTCAAAA	250
ACGGTGAAGT GGC GGCAACC AAAGTGGGTG CACTGTCTAA AGGTCAGTTG	300
AAAGAGTTCC TCGATGCTAA TCTGGCGTAA GGATCC	336

(2) INFORMATION FOR SEQ ID NO:4

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4

ATGAGCGATA AAATTATTCA CCTGACTGAC GACAGTTTG ACACGGATGT	50
ACTCAAAGCG GACGGGGCGA TCCTCGTCGA TTTCTGGCA GAGTGGTGCG	100
GTCCGTGCAA AATGATCGCC CCGATTCTGG ATGAAATCGC TGACGAATAT	150
CAGGGCAAAC TGACCGTTGC AAAACTGAAC ATCGATCAA ACCCTGGCAC	200
TGCGCCGAAA TATGGCATCC GTGGTATCCC GACTCTGCTG CTGTTCAAAA	250
ACGGTGAAGT GGC GGCAACC AAAGTGGGTG CACTGTCTAA AGGTCAGTTG	300
AAAGAGTTCC TCGAGGCTAA TCTGGCGTAA GGATCC	336

(2) INFORMATION FOR SEQ ID NO:5

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81 bases pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5

GATAATATTC TGGCTGGTTC TGGTTCTGGT GATGACGATG ACAAGGGTCC	50
TGTTCCGCCG TCTACCGCTC TGCCTGAGCT C	81

(2) INFORMATION FOR SEQ ID NO:6

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 amino acids
- (B) TYPE: amino acid

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6

Asp	Asn	Asn	Leu	Ala	Gly	Ser	Gly	Ser	Gly	Asp	Asp	Asp	Asp	Lys
1					5					10				15

Gly	Pro	Val	Pro	Pro	Ser	Thr	Ala	Leu	Arg	Glu	Leu		27
												20	25

(2) INFORMATION FOR SEQ ID NO:7

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 52 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7

GAAGGAGGCT	GATTAAATGG	GTCCGGTTCC	GCCGTCTACC	GCTCTGGAGC	50
TC					52

(2) INFORMATION FOR SEQ ID NO:8

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8

AAGGAGGCTG	ATTAATG	18
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(2) INFORMATION FOR SEQ ID NO:9

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 17 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9

AAGGAGGCTG	ATTAATG	17
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(2) INFORMATION FOR SEQ ID NO:10

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10

AAGGAGGTTT AATG 14

(2) INFORMATION FOR SEQ ID NO:11

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- (B) TYPE: amino acid

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11

Leu Asp Ala Asn Leu Ala 6
1 5

(2) INFORMATION FOR SEQ ID NO:12

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12

CTCGATGCTA ATCTGGCGTA A 21

(2) INFORMATION FOR SEQ ID NO:13

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 bases
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13

CTCGAGGCTA ATCTGGCGTA A 21

(2) INFORMATION FOR SEQ ID NO:14

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- (B) TYPE: amino acid

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14

Leu Glu Ala Asn Leu Ala 6
1 5